



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

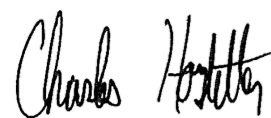
Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC46135	Pokagon SP - Main Beach	8/11/2025	8/13/2025	< 0.40
AC46136	Pokagon SP - Potawatomi Inn Beach	8/11/2025	8/13/2025	< 0.40
AC46137	Chain O'Lakes SP - Sand Lake Beach	8/11/2025	8/13/2025	< 0.40
AC46138	Ouabache SP - Kunkel Lake Beach	8/11/2025	8/13/2025	< 0.40
AC46139	Potato Creek SP - Worster Lake Beach	8/12/2025	8/13/2025	< 0.40
AC46140	Mississinewa Lake - Miami SRA Beach	8/12/2025	8/13/2025	< 0.40
AC46141	Salamonie Lake - Lost Bridge West SRA Beach	8/12/2025	8/13/2025	< 0.40
AC46142	Summit Lake SP - Summit Lake Beach	8/12/2025	8/13/2025	< 0.40
AC46143	Mississinewa Lake - Miami SRA Beach (Field Duplicate)	8/12/2025	8/13/2025	< 0.40
AC46144	Field Blank	8/12/2025	8/13/2025	< 0.40
AC46145	Ferdinand State Forest - Ferdinand Lake Beach	8/11/2025	8/13/2025	< 0.40
AC46146	Patoka Lake - Newton Stewart SRA	8/11/2025	8/13/2025	< 0.40

Test Information

Request: 8/13/2025 11:35:48 AM
Date: 8/13/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.664 Abs	0.001 µg/L	R^2=0.99953, 99.8%		0.000	Kit:250700
ATX Std 0	ANATOXIN	1.668 Abs [1.6660] {0.2 C	0.000 µg/L [0.001]	R^2=0.99953, 100.1%		0.000	Kit:250700
ATX Std 1	ANATOXIN	1.365 Abs	0.134 µg/L	R^2=0.99953, 81.9%		0.150	Kit:250700
ATX Std 1	ANATOXIN	1.318 Abs [1.3415] {2.5 C	0.164 µg/L [0.149]	R^2=0.99953, 79.11%		0.150	Kit:250700
ATX Std 2	ANATOXIN	1.057 Abs	0.396 µg/L	R^2=0.99953, 63.44%		0.400	Kit:250700
ATX Std 2	ANATOXIN	1.054 Abs [1.0555] {0.2 C	0.399 µg/L [0.398]	R^2=0.99953, 63.26%		0.400	Kit:250700
ATX Std 3	ANATOXIN	0.701 Abs	1.046 µg/L	R^2=0.99953, 42.07%		1.000	Kit:250700
ATX Std 3	ANATOXIN	0.704 Abs [0.7025] {0.3 C	1.038 µg/L [1.042]	R^2=0.99953, 42.25%		1.000	Kit:250700
ATX Std 4	ANATOXIN	0.432 Abs	2.308 µg/L	R^2=0.99953, 25.93%		2.500	Kit:250700
ATX Std 4	ANATOXIN	0.423 Abs [0.4275] {1.5 C	2.378 µg/L [2.343]	R^2=0.99953, 25.35%		2.500	Kit:250700
ATX Std 5	ANATOXIN	0.233 Abs	> 5.000 µg/L	13.986 %Abs		5.000	Kit:250700
ATX Std 5	ANATOXIN	0.219 Abs [0.2260] {4.4 C	> 5.000 µg/L	13.145 %Abs		5.000	Kit:250700
ATX Control	ANATOXIN	0.846 Abs	0.709 µg/L	50.780 %Abs			Kit:250700
ATX Control	ANATOXIN	0.830 Abs [0.8380] {1.4 C	0.740 µg/L [0.725]	49.820 %Abs [50.3			Kit:250700

Note



Test Report (by Request)

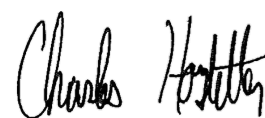
Test Information

Request: 8/13/2025 11:58:54 AM
Date: 8/13/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	ANATOXIN	1.459 Abs	0.081 µg/L	Low, 87.575 %Abs		0.150 - 5.000	Kit:250700
LRB	ANATOXIN	1.426 Abs [1.4425] {1.6 C	0.098 µg/L [0.090]	Low, 85.594 %Abs		0.150 - 5.000	Kit:250700
LFB (ANA)	ANATOXIN	0.873 Abs	0.660 µg/L	52.401 %Abs		0.150 - 5.000	Kit:250700
LFB (ANA)	ANATOXIN	0.852 Abs [0.8625] {1.7 C	0.698 µg/L [0.679]	51.140 %Abs [51.7		0.150 - 5.000	Kit:250700
AC46135	ANATOXIN	1.516 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46135	ANATOXIN	1.476 Abs [1.4960] {1.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46136	ANATOXIN	1.475 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46136	ANATOXIN	1.431 Abs [1.4530] {2.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46137	ANATOXIN	1.351 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46137	ANATOXIN	1.299 Abs [1.3250] {2.8 C	0.195 µg/L	77.971 %Abs	MDF=1.100	0.150 - 5.000	Kit:250700
AC46138	ANATOXIN	1.525 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46138	ANATOXIN	1.495 Abs [1.5100] {1.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46139	ANATOXIN	1.434 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46139	ANATOXIN	1.410 Abs [1.4220] {1.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46139MS	ANATOXIN	0.760 Abs	0.892 µg/L	45.618 %Abs		0.150 - 5.000	Kit:250700
AC46139MS	ANATOXIN	0.746 Abs [0.7530] {1.3 C	0.926 µg/L [0.909]	44.778 %Abs [45.1		0.150 - 5.000	Kit:250700
AC46139MSD	ANATOXIN	0.747 Abs	0.924 µg/L	44.838 %Abs		0.150 - 5.000	Kit:250700
AC46139MSD	ANATOXIN	0.713 Abs [0.7300] {3.3 C	1.013 µg/L [0.969]	42.797 %Abs [43.8		0.150 - 5.000	Kit:250700
AC46140	ANATOXIN	1.548 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46140	ANATOXIN	1.515 Abs [1.5315] {1.5 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46141	ANATOXIN	1.458 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46141	ANATOXIN	1.396 Abs [1.4270] {3.1 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46142	ANATOXIN	1.455 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46142	ANATOXIN	1.455 Abs [1.4550] {0.0 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46143	ANATOXIN	1.407 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46143	ANATOXIN	1.399 Abs [1.4030] {0.4 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46144	ANATOXIN	1.564 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46144	ANATOXIN	1.546 Abs [1.5550] {0.8 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46145	ANATOXIN	1.459 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46145	ANATOXIN	1.441 Abs [1.4500] {0.9 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46146	ANATOXIN	1.455 Abs	< LOD	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700
AC46146	ANATOXIN	1.391 Abs [1.4230] {3.2 C	< LOD [< LOD]	Low, Out Adjust Dilu	MDF=1.100	0.150 - 5.000	Kit:250700

Note

Signature



Assay Information

Assay Name: ANATOXIN
Version: 2
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description: PN 520060
Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
Well Type: Flat bottom
Last Modified On: 7/25/2019 3:49:23 PM
Normal: 0.150 - 5.000
of decimals: 3
Kit Lot Number: Kit:2507006152

ATX Control
Standards:
ATX Std 0, Concentration = 0.000, Minimum number to use: 2
ATX Std 1, Concentration = 0.150, Minimum number to use: 2
ATX Std 2, Concentration = 0.400, Minimum number to use: 2
ATX Std 3, Concentration = 1.000, Minimum number to use: 2
ATX Std 4, Concentration = 2.500, Minimum number to use: 2
ATX Std 5, Concentration = 5.000, Minimum number to use: 2
Curve valid interval: 1 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position
8/13/2025 11:35:48 AM				
ATX Std 0	1.664 Abs	0.001 µg/L	R ² =0.99953, 99.880 %Abs	RK1:23->A01@2
ATX Std 0	1.668 Abs [1.6660] {0.2 CV}	0.000 µg/L [0.001] {141.4 CV}	R ² =0.99953, 100.120 %Abs	RK1:23->B01@2
ATX Std 1	1.365 Abs	0.134 µg/L	R ² =0.99953, 81.933 %Abs	RK1:24->C01@2
ATX Std 1	1.318 Abs [1.3415] {2.5 CV}	0.164 µg/L [0.149] {14.2 CV}	R ² =0.99953, 79.112 %Abs	RK1:24->D01@2
ATX Std 2	1.057 Abs	0.396 µg/L	R ² =0.99953, 63.445 %Abs	RK1:25->E01@2
ATX Std 2	1.054 Abs [1.0555] {0.2 CV}	0.399 µg/L [0.398] {0.5 CV}	R ² =0.99953, 63.265 %Abs	RK1:25->F01@3
ATX Std 3	0.701 Abs	1.046 µg/L	R ² =0.99953, 42.077 %Abs	RK1:26->G01@3
ATX Std 3	0.704 Abs [0.7025] {0.3 CV}	1.038 µg/L [1.042] {0.5 CV}	R ² =0.99953, 42.257 %Abs	RK1:26->H01@3
ATX Std 4	0.432 Abs	2.308 µg/L	R ² =0.99953, 25.930 %Abs	RK1:27->A02@2
ATX Std 4	0.423 Abs [0.4275] {1.5 CV}	2.378 µg/L [2.343] {2.1 CV}	R ² =0.99953, 25.390 %Abs	RK1:27->B02@2
ATX Std 5	0.233 Abs	> 5.000 µg/L	13.986 %Abs	RK1:28->C02@2
ATX Std 5	0.219 Abs [0.2260] {4.4 CV}	> 5.000 µg/L	13.145 %Abs	RK1:28->D02@2

8/13/2025 11:35:48 AM				
ATX Control	0.846 Abs	0.709 µg/L	50.780 %Abs	RK1:29->E02@2
ATX Control	0.830 Abs [0.8380] {1.4 CV}	0.740 µg/L [0.725] {3.0 CV}	49.820 %Abs [50.300 %Abs]	RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.6660	0.0005		
ATX Std 0 [SD]	0.0028	0.0007		
ATX Std 0 [%CV]	0.1698	141.4214		
ATX Std 1 [MEAN]	1.3415	0.1490		
ATX Std 1 [SD]	0.0332	0.0212		
ATX Std 1 [%CV]	2.4774	14.2370		
ATX Std 1 [%DIFF]		-0.6667		
ATX Std 2 [MEAN]	1.0555	0.3975		
ATX Std 2 [SD]	0.0021	0.0021		
ATX Std 2 [%CV]	0.2010	0.5337		
ATX Std 2 [%DIFF]		-0.6250		
ATX Std 3 [MEAN]	0.7025	1.0420		
ATX Std 3 [SD]	0.0021	0.0057		
ATX Std 3 [%CV]	0.3020	0.5429		
ATX Std 3 [%DIFF]		4.2000		
ATX Std 4 [MEAN]	0.4275	2.3430		
ATX Std 4 [SD]	0.0064	0.0495		
ATX Std 4 [%CV]	1.4886	2.1126		
ATX Std 4 [%DIFF]		-6.2800		
ATX Std 5 [MEAN]	0.2260			
ATX Std 5 [SD]	0.0099			
ATX Std 5 [%CV]	4.3803			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.8380	0.7245			
ATX Control [SD]	0.0113	0.0219			
ATX Control [%CV]	1.3501	3.0256			

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
Weight: NONE
A = 1.6673
B = 0.87337
C = 0.78061
D = -0.047309
R2 coef = 0.99953
50% = 0.734

